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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/524,447	10/13/2005	Lothar Stadelmeier	28271US8XPCT	6248
22850	7590	06/08/2009		
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAMINER TORRES, MARCOS L	
			ART UNIT	PAPER NUMBER
			2617	
			NOTIFICATION DATE	DELIVERY MODE
			06/08/2009	ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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<b>Office Action Summary</b>	<b>Application No.</b> 10/524,447	<b>Applicant(s)</b> STADELMEIER ET AL.	
	<b>Examiner</b> MARCOS L. TORRES	<b>Art Unit</b> 2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 26 February 2009.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

### **DETAILED ACTION**

This is a copy of the final rejection mailed 5-14-09 with the addition of paragraph 07-40 in the conclusion.

#### ***Response to Arguments***

1. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.
2. As to applicant's representative [hereinafter applicant] arguments directed to claim 7, it is noted that the missing teachings of the '297 the present rejection in record do not relied on that reference but on '372 and vice versa. In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).
3. The current rejection of claims 7 and 8 stands.

#### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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5. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

6. Claims 9 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haartsen US006026297A in view of Schmidt US 20030035388A1.

As to claim 9, Haartsen '297 discloses a controller of a wireless ad hoc network including a plurality of wireless terminals, comprising a splitting unit configured to control the splitting of said wireless ad hoc network, wherein a new wireless ad hoc network is spawned that includes at least one of said plurality of wireless terminals and/or one or more new wireless terminals, wherein the central controller is configured to check whether more bandwidth than a certain amount of available bandwidth is required by some of said plurality of wireless terminals (see col. 6, lines 7-30). Haatseen does not specifically disclose wherein the central controller is configured to check whether more bandwidth than a certain amount of available bandwidth is required by said plurality of wireless terminals. In an analogous art, Schmidt discloses wherein the central controller is configured to check whether more bandwidth than a certain amount of available bandwidth is required by said plurality of wireless terminals (see par. 0017-0019). Therefore, it would had been obvious to one of the ordinary skills in the art at the time of

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the invention was made to combine these teachings to provide the proper bandwidth for communication as suggested in par. 0006.

As to claim 11, Haartsen '297 discloses a wireless ad hoc network comprising a plurality of wireless terminals, and a central controller characterized by a splitting means that controls the splitting of said wireless ad hoc network, wherein a new wireless ad hoc network is spawned that comprises at least one of said plurality of wireless terminals and/or one or more new wireless terminals (see col. 6, lines 12-37). Haatseen does not specifically disclose wherein the central controller is configured to check whether more bandwidth than a certain amount of available bandwidth is required by said plurality of wireless terminals. In an analogous art, Schmidt discloses wherein the central controller is configured to check whether more bandwidth than a certain amount of available bandwidth is required by said plurality of wireless terminals (see par. 0017-0019). Therefore, it would had been obvious to one of the ordinary skills in the art at the time of the invention was made to combine these teachings to provide the proper bandwidth for communication as suggested in par. 0006.

7. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haartsen '297 in view of Haartsen 7016372 in view of Schmidt US 20030035388A1.

As to claim 1, Haartsen '297 discloses a method for a wireless ad hoc network configured to operate in a certain communication channel with a certain amount of available bandwidth comprising a plurality of wireless terminals (see col. 1, lines 13-17), the method comprising splitting up said wireless ad hoc network such that at least one

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new wireless ad hoc network is spawned (see col. 2, lines 38-54; col. 3. lines 46-65), wherein after the split of said wireless ad hoc network at least one wireless terminal of said wireless ad hoc network and/or one or more new wireless terminals belong(s) to said at least one new wireless ad hoc network (see col. 3. lines 46-65), and said at least one new wireless ad hoc network is operating in a respective different communication channel (see col. 1 lines 35-46; col. 5, line 12 – col. 6, line 11). Haartsen does not specifically disclose to provide additional bandwidth if more bandwidth than said certain amount of available bandwidth is required by said plurality of wireless terminals. In an analogous art, Haartsen '372 disclose to provide additional bandwidth if more bandwidth than said certain amount of available bandwidth is required by said plurality of wireless terminals (see col. 1, lines 13-17; col. 5, lines 49-56; col. 7, lines 25-41). Therefore, it would have been obvious to one of the ordinary skills in the art at the time of the invention to combine the teachings for the simple purpose of providing adequate bandwidth as suggested by Haartsen '372 in col. 5, line 49-56. The prior references provide additional bandwidth between the terminals. In an analogous art, Schmidt discloses checking by a central controller of said wireless ad hoc network whether more bandwidth than said certain amount of available bandwidth is required by said plurality of wireless terminals (see par. 0017-0019). Therefore, it would had been obvious to one of the ordinary skills in the art at the time of the invention was made to combine these teachings to provide the proper bandwidth for communication as suggested in par. 0006.

As to claim 2, Haartsen '297 discloses a method further comprising controlling said wireless ad hoc network and the splitting of said wireless ad hoc network by said central controller of said wireless ad hoc network that decides which wireless terminals of said wireless ad hoc network and/or which new wireless terminals are moved to said at least one new wireless ad hoc network, wherein the decision is based on certain separation criteria, and said central controller determines a new central controller for said at least one new wireless ad hoc network (see col. 6, lines 12-37), which said separation criteria assure that wireless terminals that have the same connection (see col. 5, lines 12 – col. 6, line11).

As to claim 3, Haartsen '297 discloses everything as explained above except for a method further comprising said wireless ad hoc network and said at least one new wireless ad hoc network are according to the IEEE802.11 or ETSI BRAN HIPERLAN/2 standard. In an analogous art, Haartsen '372 disclose a method characterized in that said wireless ad hoc network and said at least one new wireless ad hoc network are operated according to the IEEE802.11 or ETSI BRAN HIPERLAN/2 standard (see col. 2, lines 11-45). Therefore, it would have been obvious to one of the ordinary skills in the art at the time of the invention to use the above teaching in any of the common available network for the simple purpose of compatibility.

As to claim 4, Haartsen '297 discloses the method further comprising said certain separation criteria assure that wireless terminals with certain connections that should not be interrupted are not moved to said at least one new wireless ad hoc network (see col. 4, lines 33-40).

As to claim 5, Haartsen '297 discloses a method further comprising providing new commands in order to spawn said at least one new wireless ad hoc network, wherein a requesting command is sent to a request wireless terminal to ask this request wireless terminal to move to said at least one new ad hoc wireless network (see col. 6, lines 7-30). Haartsen '297 does not specifically disclose a confirmation command is used by a request wireless terminal to signal that it can move to said at least one new ad hoc wireless network. In an analogous art, Haartsen '372 disclose a confirmation command is used by a request wireless terminal to signal that it can move to said at least one new ad hoc wireless network (see col. 8, line 16 – col. 9, line 25). Therefore, it would have been obvious to one of the ordinary skills in the art at the time of the invention to use the common and well known technique of acknowledging a message for the simple purpose letting know the first device that message was received.

As to claim 6, Haartsen '297 discloses a method further comprising that a wireless terminal stops using its entire wireless connections the moment it sent out a command moves to one of said at least one new wireless ad hoc network (see col. 4, lines 50-55). The combination of the references fails to show the steps of waits until it receives a start command sent out by a central controller, and then starts using its wireless connections according to the information provided by said start command. However, it is noted that the above steps the wireless terminal it is merely following the instruction of the master device and it would have been obvious to one of the ordinary skills in the art at the time of the invention to follow the instructions and transmit only



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when instructed to do so for the simple purpose of avoiding interference and message collisions.

8. Claims 7-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haartsen '297 in view of Haartsen 7016372.

As to claim 7, Haartsen '297 discloses a wireless terminal of a wireless ad hoc network configured to be controlled by a central controller of said wireless ad hoc network characterized by a receiving unit configured to receive a requesting command from the central controller indicating certain operating conditions for the wireless terminal (see col. 6, lines 7-30), a condition checking unit configured to check if the wireless terminal can be operated under said certain conditions (see col. 5, lines 53-63). Haartsen '297 does not specifically disclose a confirmation command is used by a request wireless terminal to signal that it can move to said at least one new ad hoc wireless network. In an analogous art, Haartsen '372 disclose a confirmation command is used by a request wireless terminal to signal that it can move to said at least one new ad hoc wireless network (see col. 8, line 16 – col. 9, line 25). Therefore, it would have been obvious to one of the ordinary skills in the art at the time of the invention to use the common and well known technique of acknowledging a message for the simple purpose letting know the first device that message was received.

As to claim 8, Haartsen '297 discloses a wireless terminal characterized in that said certain conditions define if said wireless terminal can operate as a central controller of a wireless ad hoc network, a certain communication channel at which said wireless terminal is able to operate, and/or a moment in time at which said wireless terminal shall

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operate in said certain communication channel and at which it may be controlled by a different central controller (see col. 6, lines 12-37).

9. Claim 10 rejected under 35 U.S.C. 103(a) as being unpatentable over Haartsen US006026297A in view of Schmidt as applied to claim 9 above, and further in view of Haartsen 7016372.

As to claim 10, Haartsen '297 discloses a central controller wherein the splitting means comprises unit includes: a sending unit configured to sends send out requesting commands to wireless terminals and an operating unit configured to decide which of said plurality of wireless terminals and/or of said new wireless terminals may be moved to said new wireless ad hoc network and determines a wireless terminal of said plurality of wireless terminals and/or of said new wireless terminals that becomes the central controller of said new wireless ad hoc network (see col. 2, lines 38-54; col. 3. lines 46-65; see col. 5, lines 53-63). Haartsen '297 and Schmidt do not specifically disclose a confirmation command is used by a request wireless terminal to signal that it can move to said at least one new ad hoc wireless network. In an analogous art, Haartsen '372 disclose a confirmation command is used by a request wireless terminal to signal that it can move to said at least one new ad hoc wireless network (see col. 8, line 16 – col. 9, line 25). Therefore, it would have been obvious to one of the ordinary skills in the art at the time of the invention to use the common and well known technique of acknowledging a message for the simple purpose letting know the first device that message was received.

***Conclusion***

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARCOS L. TORRES whose telephone number is (571)272-7926. The examiner can normally be reached on 9:30 am - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on 571-252-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/George Eng/  
Supervisory Patent Examiner, Art Unit 2617

/Marcos L Torres/  
Examiner, Art Unit 2617